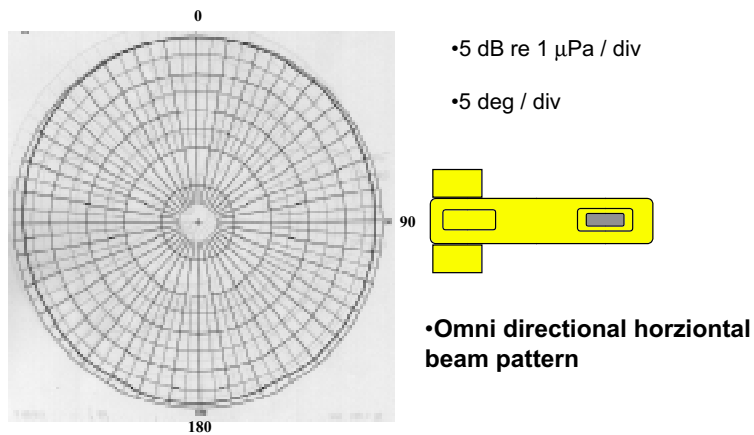
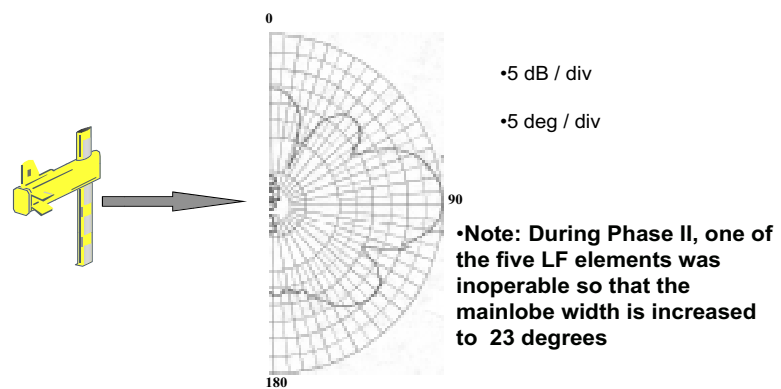




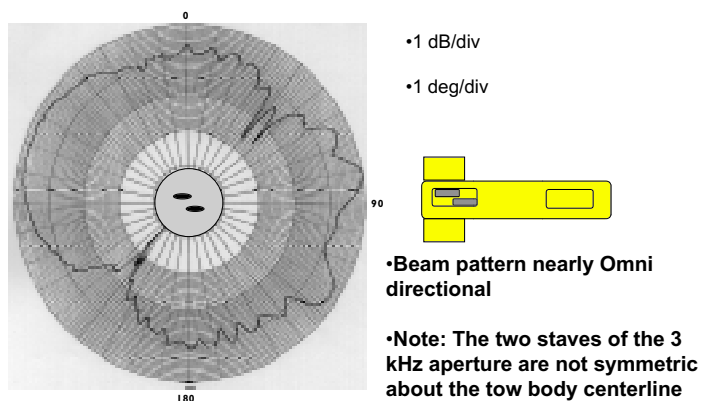
Measured TVDS Low Frequency Horizontal Beam Pattern



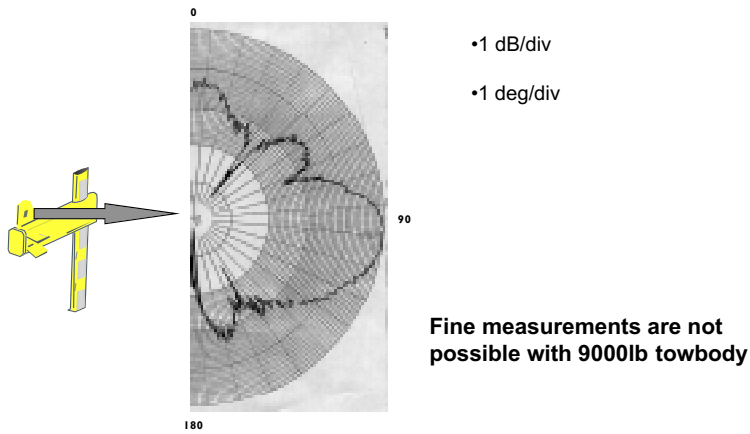
Measured TVDS Low Frequency Vertical Beam Pattern



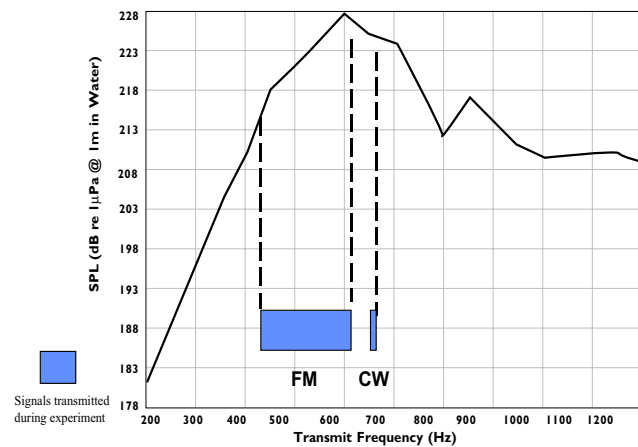
Measured TVDS Mid Frequency Horizontal Beam Pattern



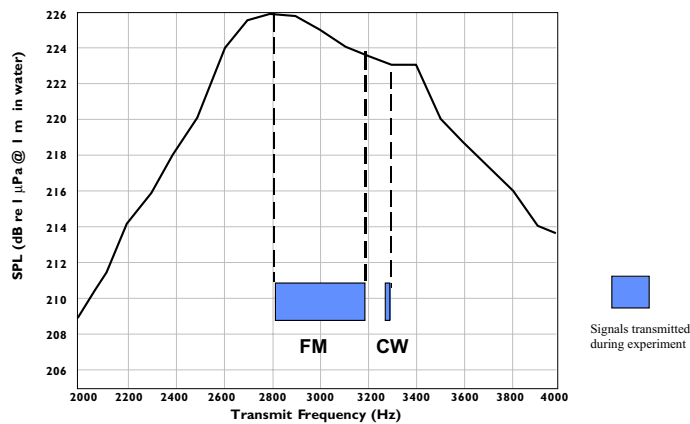
Measured TVDS Mid Frequency Vertical Beam Pattern



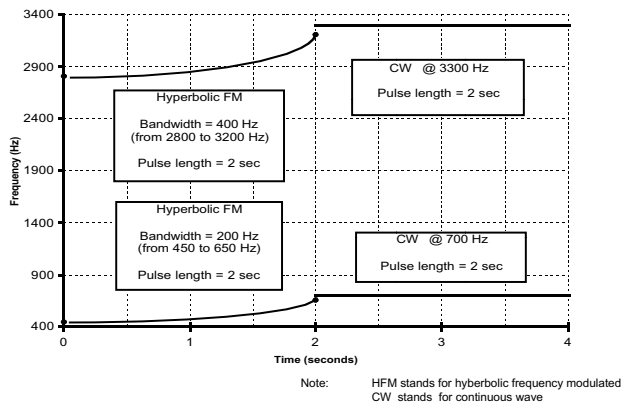
TVDS Low Frequency Array Response Curve



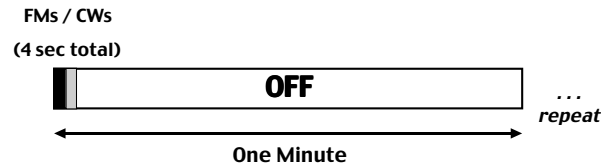
TVDS MF Array Response Curve



SWAC 4
Transmitted Waveforms



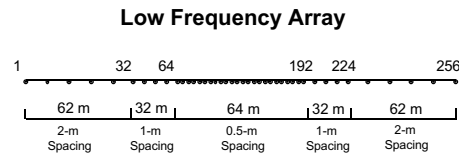
SWAC 4
Repetition Rate



- The one minute repetition rate results in a 6.7% duty cycle.
- Simultaneous transmission of signals in the LF and MF bands.

SACLANTCEN Horizontal
Towed Array Receivers

Length = 252 m
DI = 21 dB
of Phones = 128
Beam Spacing ~ 1° @ 90°
Anti-alias Filter = 360 - 1860 Hz



Length = 5.6 m
DI = 15 dB
of Phones = 32
Beam Spacing ~ 5° @ 90°
Anti-alias Filter = 1 - 3.8 kHz

